Grade 10 STEPWISE

Theme 8 Life in the Universe and the Future

Test 1

Name: _____ Class: _____ Date: _____

Choose the best answer for each question.

1. A vehicle designed to travel in space is a _____.
   A) ferry B) submarine C) spacecraft
2. The galaxy that includes our Solar System is the _____.
   A) Moon B) Milky Way C) Pacific
3. To move around another body in space is to _____ it.
   A) orbit B) landmark C) sponsor
4. Broken or unused objects left in space can be called space _____.
   A) supplies B) habitats C) debris
5. A: Why collect measurements instead of only taking photographs?
   B: _____.
   A) Different kinds of evidence can answer different questions.
   B) Photographs always prove everything about a planet.
   C) Measurements are useful only after a mission ends.
6. If a solar panel receives sunlight, it _____ electricity.
   A) produces B) produce C) producing
7. If the team _____ the test, it will know whether the equipment works.
   A) completes B) will complete C) completed yesterday
8. The mission will be delayed if the weather _____ unsafe.
   A) will be B) is C) being
9. If we _____ enough data, we will compare the two models.
   A) will collect B) collect C) collecting
10. If the battery is empty, this device _____ on.
    A) doesn't switch B) don't switch C) not switching

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Choose the best answer for each question.

11. A: What will happen if communication is lost?
    B: _____.
    A) The team will follow its planned backup procedure.
    B) The team followed it yesterday only.
    C) It always had lost communication.
12. Which sentence describes a general relationship rather than one future plan?
    A) If it rains tomorrow, we will postpone the test.
    B) If you arrive early next week, we will show you the model.
    C) If this sensor gets wet, it stops working.
13. We will check the results again if they _____ unusual.
    A) look B) will look C) looking
14. A: Does one unusual signal prove there is life elsewhere?
    B: _____.
    A) Yes, no further investigation is necessary.
    B) No signal can ever be worth investigating.
    C) We need to check other explanations and collect more evidence.
15. Which question asks about the consequence of a possible future problem?
    A) Who repaired the equipment yesterday?
    B) What will you do if the equipment fails?
    C) How often do you use this equipment now?

Read the text and answer questions 16 to 20.

A MODEL MISSION IN THE CLASSROOM

Our class designed a model mission to test how a small vehicle could explore an unfamiliar area. The vehicle had a camera and a temperature sensor. In the first trial, it sent clear images but stopped before reaching the final marker. Instead of immediately changing every part, the team checked the battery, route and instructions separately. They found that one instruction made the vehicle repeat a turn. After correcting it, they ran the same trial again so that the results could be compared fairly. The project was only a classroom model, but it showed why careful testing matters. A dramatic-looking failure can sometimes begin with a small problem that needs a clear question rather than a quick guess.

16. What was the aim of the model mission?
    A) To send students to another planet
    B) To test exploration of an unfamiliar area
    C) To replace the school's heating system
17. What happened in the first trial?
    A) The camera sent no images at all.
    B) Every piece of equipment broke.
    C) The vehicle stopped before the final marker.
18. How did the team investigate?
    A) Changed every part at the same time
    B) Checked possible causes separately
    C) Decided not to examine the instructions
19. Why was the same trial repeated?
    A) To avoid collecting new results
    B) To make a fair comparison after the correction
    C) To prove that the first trial had never happened
20. What is the main lesson?
    A) A failed first trial means a project has no value.
    B) Every technical problem requires new equipment.
    C) Careful investigation is more useful than guessing at a cause.